

Title (en)

METHOD FOR THE LOAD-DEPENDENT OPERATION OF A DRYER AND DRYER SUITABLE THEREFOR

Title (de)

VERFAHREN ZUM BELADUNGSABHÄNGIGEN BETRIEB EINES TROCKNERS SOWIE HIERZU GEEIGNETER TROCKNER

Title (fr)

PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER UN SÈCHE-LINGE EN FONCTION DE LA CHARGE ET SÈCHE-LINGE PERMETTANT LA MISE EN OEUVRE DUDIT PROCÉDÉ

Publication

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Application

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Abstract (en)

[origin: WO2013167489A2] The invention relates to a method for operating a dryer (1) comprising a drum (2) for pieces of laundry (5) to be dried, a moisture sensor (7), an electric, variable-speed drive motor (12) for the drum (2), a control unit (11) and a process air duct (3) in which a heating unit (4) and a process air blower (6) are located, said method comprising the steps: (a) determining a load  $L_{init}$  of the drum (2) at the start of loading; (b) operating the drive motor (12) at a speed  $v$  in a range  $v_1 \leq v \leq v_2$ ; (c) producing hot process air by operating the heating unit (4) and the process air blower (6) and rotating the drum (2) at a speed  $\dot{u}$ , wherein  $\dot{u}_1 < \dot{u} < \dot{u}_2$ , and passing said air through the drum (2); (d) measuring a moisture  $W$  of the pieces of laundry (5) by means of the moisture sensor (7); (e) determining a load  $LW_u$  of the drum (2) when a moisture  $W$  smaller or equal a predetermined threshold value  $W_u$  is reached; (f) determining the dry weight  $W_{dry}$  of the pieces of laundry (5) once it is established that the load  $L$  is within a range defined by a minimum load  $L_{min}$  and a maximum load  $L_{max}$ , such that  $L_{min} \leq L \leq L_{max}$ ; and (g) increasing the speed  $v$  of the drive motor (12) and the speed  $\dot{u}$  of the drum (2) depending on the determined dry weight  $W_{dry}$  and the moisture  $W$ . The invention further relates to a dryer suitable for performing said method.

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